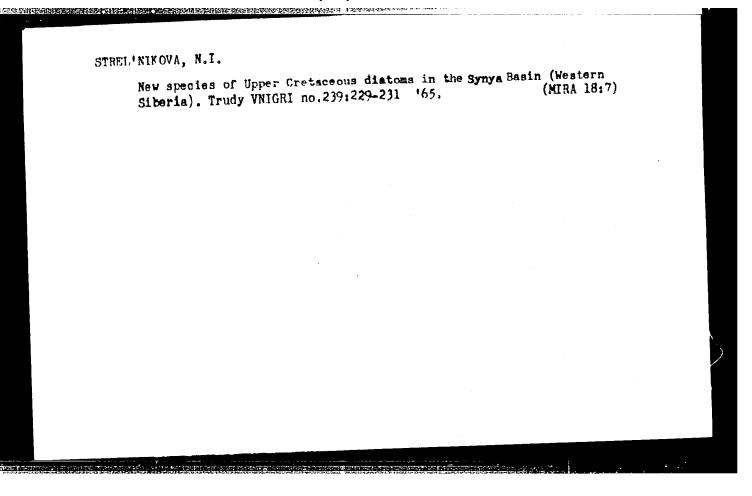
生态,所谓的**的现在分**类的主义,但是是一种的人,但是一种的人,他们就是一种的人,他们就是一种的人,他们就是一种人,他们是一种人,他们也是一种人,他们也是一种人,他们

STIGL'NIKOVA, N.1.

Conditions governing the formation of diatomite, diatomaceous clays and opokalike rocks in Western Siberia. Trudy VNIGRI no.225:97-101 163. (MIRA 17:3)



TULUPOV, P. Ye.; Prinimala uchastiye STREL'NIKOVA, N. I.

DEL CONDENSATA PARAMENTANDA DEL COLONO DE LA CONTRADA DE LA COLON DEL COLON DE LA COLON DE LA COLON DE LA COLON DEL COLON DE LA COLON DEL COLON DE LA COLON DEL COLON DE LA COLON DEL COLON DE LA COLO

Chromatographic determination of impurities of C<sub>4</sub> hydrocarbons in the methane-hydrogen fraction. Zav. lab. 28 no.12:1430-1431 (MIRA 16:1)

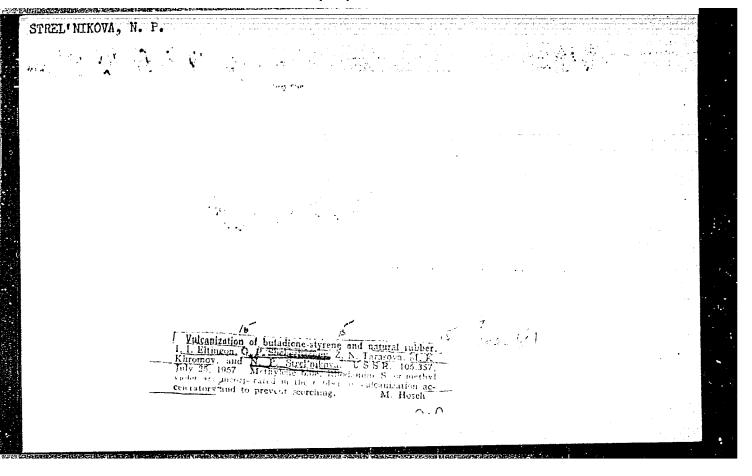
l. Novokuybyshevskiy filial nauchno⊷issledovatel¹skogo instituta sinteticheskikh spirtov i organicheskikh produktov.

(Hydrocarbons) (Chromatographic analysis)

STREL'NIKOVA, N.I.

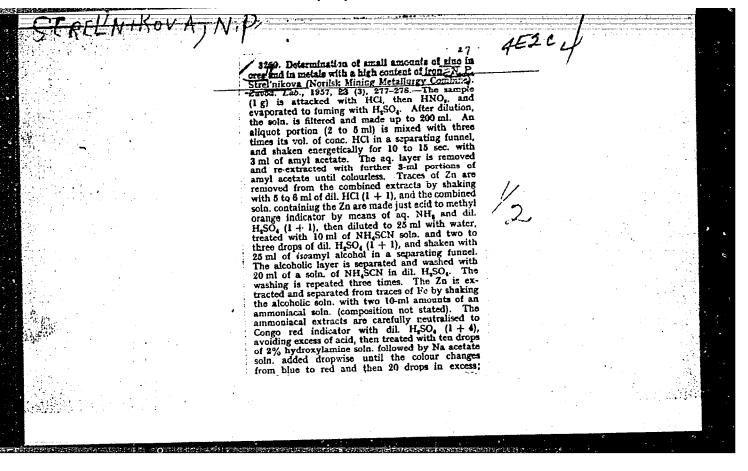
Diatoms from Upper Cretaceous deposits in the northwestern part of the West Siberian Plain. Bot.zhur. 50 no.7:986-990 (MIRA 18:11)

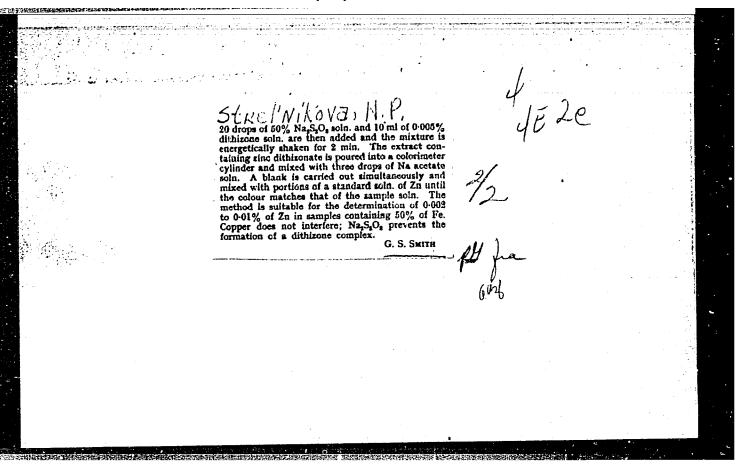
1. Vsesoyuznyy neftyanoy nauchno-issledovatel'skiy geologorazvedochnyy institut, Leningrad.



#### "APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653520007-2





Strel'nikeua NP

AUTHOR:

Strel'nikova, N.P.

32-11-13/60

Short Reports (2) (Korotkiye soobshcheniya)

PERIODICAL: Zavodskaya Laboratoriya, 1957, Vol. 23, Nr 11, pp. 1308-1308 (USSR)

ABSTRACT:

In this paper it is stated that after the testing of various methods of the complexometric aluminum determination, preference was given to the method developed by Yu.A.Chernikov, B.M. Dobkina, and A.M. Khersonskaya (Zavodskaya Laboratoriya, 1955, Nr 6). In this paper, however, a new method is suggested, i.e. 0.4 g of the substance to be investigated is mixed with 5 g sodium hydroxide and 0.5 g sodium oxide and melted at 700°, after cooling it is dissolved in hot water; 6 drops of 5% NaS is added and after some time has elapsed the whole mixture is filtrated. An amount of the solution which is assumed to contain about from 5 to 8 mg Al, is mixed with 10 ml of the 0.05-m solution of the trilon "B". Further, the solution is neutralized by a 1:1 hydrochloric acid solution with phenolphthalein. A 10 ml acetic acid solution (2-m) and a 10 ml sodium acetate solution (1-m) is added; the mixture is heated up to boiling point and cooled; further addition: 1.5 ml of the 0.1% alizarin solution (S). Then the excess of trilon is titrated off by thorium nitrate

Card 1/2

Short Reports (2)

32-11-13/60

until the orange coloring turns red. This method can be used as an express method.

ASSOCIATION: Noril Mining-Metallurgical Combine (Noril'skiy gorno-metallurgi-

cheskiy kombinat)

Library of Congress AVAILABLE:

Card 2/2

sov/138-58-7-2/19

Dogadkin, B.A., Eytingon, 1.I., Tarasova, Z.R., Khromov, Li.K., and Strel'nikova, N.P. AUTHORS:

The Use of Alkylphenolaldehyde Sulphide Resins for TITLE:

Increasing the Adhesion and Strength of Bonds in Froducts Made from Butadiene-styrene Rubber (Primeneniye alkilfenolal'degid sul'fidnykh smol dlya povysheniya kleykosti i prochnosti svyazi v izdeliyakh iz butadiyen-stirol'nogo

kauchuka)

位于一个人的社会的企业的问题,我们们的企业的企业,但是不是一个人的企业的企业的企业的企业的企业,但是不是一个人的企业的企业的企业,但是一个人的企业的企业的企业的

Kauchuk i rezina, 1958, Nr 7, pp 5 - 10 (USSR) FERIODICAL:

Alkylphenolaldehyde sulphide resins increase the adhesion of butadiene-styrene rubber (Ref 1). These resins are ABSTRACT:

obtained by treating the condensation product of n-tert .butylphenol and formaldehyde with SCl2 or S2Cl2 in en

alkaline medium. The condensation product was dissolved in dry dichlorethane and a 20% solution was treated at a temperature equalling its boiling point with SCl2, diluted

in an equal amount of dichlorethane. The boiling mixture

was agitated for 90 minutes and the dichlorethane distilled in a vacuum at 60 °C. The softening point of distilled in a vacuum at 60 °C. The softening point of the formed resin = 53 - 55 °C. On further heating to 0. 135 °C, the softening point increased from 70 to 120 °C.

Card1/5

sev/138-58-7-2/19

The Use of Alkylphenolaldehyde Sulphide Resins for Increasing the Adhesion and Strength of Bonds in Products Made from Butadiene-styrene Rubber

The initial condensation product had an average molecular weight of 260 and the following composition: 75.0% C, 9.2% H, 15.8% O. The molecular weight of the end product = 589 and had the following composition: 73.0% C, 6.6% H, 12.1% O, 6.3% S. The disulphide resins 8 were prepared by treating the condensation product of alkylphenol and formaldehyde with S<sub>2</sub>Cl<sub>2</sub> in substantially the

same way as alkylphenolaldehyde monosulphide recins. The molecular weight of this resin = 589 which was approximately equal to the calculated value (585). Sulphide resins C were prepared from alkylphenol formaldelyde lacquer resins Nr 101 (VTO NKHP 2196-50) which is prepared by condensing n.-tert.-butylphenol with formaldehyds in an alkaline medium, and subsequently neutralising it with H<sub>2</sub>SO<sub>4</sub> and hardening at 140 °C. The physico-mechanical

properties of adhesives based on butadiene-styrene rubber SKS-30A containing sulphide resins and vulcanised in the

Card2/5

行。然后,我们也是<mark>不是是</mark>不知道,我们就是是我们的,我们们是是我们的,我们们就是我们们也不是不够的。

SOV/138-58-7-2/19
The Use of Alkylphenolaldehyde Sulphide Resins for Increasing the Adhesion and Strength of Bonds in Products Made from Butadienestyrene Rubber

absence of sulphur or accelerators for 60 minutes at 143 °C, are listed (Table 1). Sulphide resins increase the degree of vulcanisation but alkylphenolaldehyde resins decrease the degree of vulcanisation of mbbers based on SKS-30A (Table 2). The sulphide resins impart to the resins high moduli and a high degree of break-strength, Sulphide resins have the same degree of thermal stability and resistance to ageing as rubbers not containing these resins or phenolaldehyde resins. 60% of the total amount of sulphur, introduced into the rubber in the form of a resin, is chemically bound to the rubber. Sulphide resins also strengthen the rubber. From Table 3, it can be seen that the sulphide resins increase the dynamic modulus, internal friction and the strength of the rubbers. The effect of sulphide resins on the adhesive properties of adhesives based on SKB-30A is shown in Figure 2 and Table 4. An increase in the content of sulphur and accelerators (up to 5-10%) results in increased efficiency of the rubbers (Figure 3). The degree of deformation was

Card3/5

SOV/138-58-7-2/19

The Use of Alkylphenolaldehyde Sulphide Resins for Increasing the Adhesion and Strength of Bonds in Products Made from Butadienestyrene Rubber

found to be in an inverse proportion to the modulus. However, an increase in the content of sulphur and accelerators in the adhesives achieves better co-ordination of various layers and a very strong layer is formed in the contact region. Sulphide resins are very good adhesives. An increase in the strength of the bond of the vulcanised rubbers is achieved without lowering the adhesive properties. The investigated alkylphenolaldehyde resins inhibit the vulcanisation of rubbers and thus decrease the strength of the bonds. Resins which simultaneously decrease the degree of vulcanisation of the rubbers as, for instance, resin Nr 101, decrease also the strength of the bonds of the rubbers.

Card4/5

SOV/138-58-7-2/19

The Use of Alkylphenolaldehyde Sulphide Resins for Increasing the Adhesion and Strength of Bonds in Products Made from Butadienc-styrene Rubber

There are 3 Figures, 4 Tables and 6 references, 2 of which are English and 4 Soviet.

ASSOCIATION:

TO A PARTICULAR PROPERTY AND A PROPERTY OF THE PROPERTY OF THE

Nauchno-issledovatel'skly institut shinnoy promyshlennosti: (Scientific Research Institute of the Tyre Industry)

Uard 5/5

1. Resins--Applications 2. Synthetic rubber--Bonding

3. Synthetic rubber--Properties

FEL DSHTEYN M.S.; EYTINGON, I.I.; PEVZNER, D.M.; STREL NIKOVA, N.P.; DOGADKIN, B.A.

的,我们就是我们<mark>是一个人,我们们就是这个一个,</mark>是一个人,我们们们的一个人,我们们们的一个人,我们们就是这个人,我们们就是这个人,我们们就是这个人,我们们们们们的

Study of a series of derivatives of-mercaptobenzethiazele and dimethyldithiecarbamic acid as vulcanization accelerators. Kauch. i rez. 18 no.1:16-21 Ja '59. (MIRA 12:1)

1. Nauchno-issledovatel'skiy institut shinnoy promyshlennesti.
(Vulcanization) (Benzethiazole) (Carbamic acid)

POLYAK, E.A.; STREETNIKOVA, N.P.; PAVLOVA, V.N.; RIVNYY, V.S.; ONUFRIYENOK, I.P.; SOKOLOVICH, V.B.; LEKHOVITSKIY, I.N.; ALEKSANDROVA, Ye.N.; CHERNUKHA, G.N.

是这些**是是我们的,我们就是我们的**这个,他们就是我们的,我们就是这些,我们就是我们的,我们就是我们的,我们就是这个人,我们也不是一个人,我们也不是一个人,我们也

Brief reports. Zav.lab. 25 no.2:162-163 ' 59. (MIRA 12:3)

1. Sverdlovskiy zavod khimicheskikh reaktivov (for Polyak). 2. Noril'skiy gorno-metallurgicheskiy kombinat (for Strel'nikova, Pavlova).
3. Slavyanskiy sodovyy kombinat (for Rivnyy). 4. Tomskiy politekhnicheskiy institut (for Onufriyenok, Sokolovich).5. Khar'kovskiy ekektroteknicheskiy zavod (for Lekhovitskiy, Aleksandrova). 6. Moskovskiy mashinostroitel'nyv zavod (for Chernukha).

(Chemistry, Analytical)

#### CIA-RDP86-00513R001653520007-2 "APPROVED FOR RELEASE: 08/26/2000 的现在形式,这种人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人的人,我们就是一个人的人的人,我们就是一个人的人的人,也可以不

3(5) AUTHCRS: Eytingon, I. I., Strel'nikova, N. F.,

sov/79-29-6-56/72

Fel'dshteyn, M. 5.

TITLE:

Synthesis of Some 1,4-Piperazine-bis-carbothiosulfonamides (Sintez nekotorykh 1,4-piperazin-bis-karbotiosul'fenamidov)

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 6, pp 2032-2034 (USSR)

ABSTRACT:

There are contradictory data in technical literature on the chemical character of products of the conversion of equimolecular quantities of piperazine and carbon disulfide. The fine-crystalline end product of this reaction corresponds to the empirical formula C5H10N2S2. This compound, called "thioid", is used as a vermifuge, as well as for analytic determination of cobalt in the presence

of nickel and copper, T. Pavolini and F. Gambarin (Ref 2) heated the thioid with Col normal solution of KOH and obtained the neutral salt  $^{\rm C}_{10}{}^{\rm H}_{18}{}^{\rm K}_4{}^{\rm S}_4{}^{\rm K}_2{}^{\rm c}$  which according to their opinion points

to the presence of a complex of compounds with two sulfhydryl groups, I. Dunderdale and F. Watkins (Ref 3) dissolved the thioid in an alkaline lye and obtained after treatment of the solution with benzyl chloride, a mixture composed of benzyl esters of the piperazine-carbodithio-l- and piperazine-dicarbodithio-l,4-acid.

Card 1/3

Synthesis of Some 1,4-Piperezine-bis-carbothicsulfonamides SOV/19-29-6-56/72

According to these scientists the initial product is a complex consisting of structural units of the mono and dicarbodithio-acids of piperazine. The authors obtained by conversion of carbondisulfide with piperazine in an alkaline medium, and by subsequent oxidizing condensation of the reaction product with the corresponding secondary aliphatic amines, two until present unknown compounds:

R-CH3(I), C2H5(II);

This synthesis leads to the assumption that, in the conversion of piperazine with carbon-disulfide in an alkaline medium the formation of the acid (III) takes place, which serves as an intermediate product for the synthesis of sulforamido derivatives, followed by an oxidizing condensation with the enines (Scheme). The two compounds obtained are adequately efficient ascalerators for the sulfur vulcanization of natural and synthetic butadiene-styrene rubber. There are 3 references.

Card 2/3

Synthesis of Some 1,4-Piperazine-bis-carbothiosulfonamides SOV/79-29-6-56/72

ASSOCIATION: Nauchno-issledovatel'skiy institut shinnoy promyshlennosti

(Scientific Research Institute for Pneumatic Tire Industry)

SUEMITTED: May 9, 1958

Card 3/3

5(3), 15(9) SOV/80-32-4-34/47

AUTHORS: Felidshteyn, M.S., Dogadkin, B.A., Eytingon, I.I., Shcherbachev,

G.P. and Strel nikova, N.P.

TITLE: On the Problem of the Effect of the Chemical Structure of Sulfenamide Compounds on Vulcanization Activity (K voprosu o

vliyanii khimicheskoy struktury sul'fenamidnykh soyedineniy na

vulkanizatsionnuyu aktivnost;)

PERIODICAL: Zhurnel prikladnoy khimii, 1959, Vol 32, Nr 4, pp 893-901 (USSR)

ABSTRACT: The authors investigated the effect of various sulfenamide compounds

as vulcanization accelerators with an aim to find a correlation between their vulcanization activity and chemical structure. Representatives of the two classes of these compounds, namely derivatives of the mercaptobenzothiazole and dimethyldithiocarbamic acid, were studied. The effectiveness of their action as accelerators was investigated on mixtures which consisted of butadiene-styrol rubber (SKS-30A). The effect of accelerators on the kinetics of vulcanization is shown in Figure 1 according to data of sulfur addition, in

Figure 2 according to the changes in solubility in chloroform, and in Figure 3 according to the changes in the value of the equilibrium

Card 1/2 module The kinetic curves of vulcanization presented in Figures

SOV/80-32-4-34/47

On the Problem of the Effect of the Chemical Structure of Sulfenamide Compounds on Vulcanization Activity

1 and 2 show the presence of an initial delayed period of vulcanization Therefore, the authors conclude that this peculiarity prevents the phenomenon of premature vulcanization and ensures a more lasting staying of the mixtures in the visco-flowing state, which is of importance for manufacturing monolithic multi-layer The application of the described accelerators of vulcanization is considered as technologically expedient, for instance in the manufacture of tire treads.

There are 12 graphs, 1 table and 7 references, 5 of which are Soviet

and ? English

ASSOCIATION: Nauchno-issiedovateliskiy institut shinnoy promyshlennosti

(Scientific Research Institute for Tire Industry)

December 11, 1957 SUBMITTED

Card 2/2

STREL'NIKOVA,

5/081/61/000/023/052/061 B106/B101

Betts, G. E., Zhakova, V. G., Karmin, B. K., Strel'nikova, N. AUTHORS:

P., Eytingon, I. I.

Chemical mastication accelerators for natural and synthetic TITLE:

rubber and prospects of their application

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 23, 1961, 559, abstract

23P344. (Tr. N.-i. in-ta shin. prom-sti, sb. 5, 1960, 21-35)

TEXT: Numerous compounds have been examined, many of which are vulcanization accelerators. Dimethyl phenyl p-cresol (I) was found to be the most active chemical mastication accelerator for [k[-30 (SKS-30) rubber. In the presence of 1.2 parts by weight of I, mastication can be carried out in kettles within 30 to 50 min at 130 C as against 70 min at 135 C without I. A similar accelerating action is exerted by I on the mastication of CkH (SKN) and [kN(SKI) rubber, but not on that of Hk(NK) rubber. Active mastication accelerators for NK rubber are Renacit II, IV, and V (trichlorethiopnenol, zinc salt of pentachlorothiophenol, or pentachlorothiophenol. respectively), Vulkamel TBN (30% thio-β-naphthol and 67% inert paraffin),

Card 1/2

Chemical mastication accelerators...

S/081/61/000/023/052/061 B106/B101

Peptone 65 (zinc salt of o-benzamidothiophenol), the zinc salt of trichloro-thiophenol. Peptone 22 (0,0%-dibenzamidodiphenyl disulfide), and a nitro-fenaphthol. When selecting mastication accelerators, it should be born in mind that they are able to affect the scorching of compounds as well as the valuanization and physicomechanical properties of valuanization in lifterent ways, depending on the type of rubber, filler, and other aggredients. Of great importance are the cooling conditions of the masticated rubber. Scorching is frequently increased by water scoling of complete translations are relatively low temperatures, such as Renacit IV and Peptone 65, are required for this purpose. [Abstractor's note. Complete translations.]

Card 2/2

ATTERNATION TO A CONTRIBUTION OF THE PROPERTY		
m. B.K. Zingon.		
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A071/4079  A071/407  A071		

STREL'NIKOVA, N.P.; LYSTSOVA, G.G.

Separation of tellurium from platinum and nonferrous metals by means of a cationite. Zav.lab. 26 no.2:142-144 '60.

(MIRA 13:5)

(Tellurium-Analysis)

(Platinum-Analysis)

(Nonferrous metals-Analysis)

\$/032/60/026/04/08/046 B010/B006

AUTHORS:

ACCUPATION OF THE PROPERTY OF

Strel'nikova, N. P., Pavlova, V. N.

TITLE

Determination of Aluminum and Tellurium Using an Anion Exchanger

Zavodskaya laboratoriya, 1960, Vol. 26, No. 4, pp. 425 - 426 PERIODICAL:

TEXT: An anion exchanger of the type EDE-10p (in the Cl-form) was used for the separation of tellurium from aluminum. The latter is not absorbed by the exchanger, regardless of the pH. Tests of 4-12 molal hydrochloric acid solutions containing 50 - 100 mg tellurium showed that tellurium is quantitatively absorbed from such solutions by the above-mentioned exchanger. If a 6 molal hydrochloric acid solution containing tellurium, copper, iron, and aluminum is passed through the exchanger, only aluminum appears in the eluate and can then be determined colorimetrically at a pH = 5.5 using aluminon. An FEK-M photocolorimeter and a green filter were applied in the present case. There is 1 Soviet reference.

ASSOCIATION: Noril'skiy gorno-metallurgicheskiy kombinat (Noril'sk Kombinat of Mining Metallurgy)

Card 1/1

PAVLOVA, V.N., STREL'NIKOVA, N.P.

Determination of small amounts of cadmium in nikel and cobalt by means of ion exchange. Zav.lab. 26 no.5:536-537 '60.

(MIRA 13:7)

(Cadmium--Analysis) (Nickel--Analysis) (Cobalt--Analysis)

\$/079/60/030/009/014/015 B001/B064 Synthesis of Some 4-Morpholine- and 1-Piperidine Carbo-Eytingon, I. I., Strelinikova, N. P. Zhurnal obshchey khimii, 1960, Vol. 30, No. 9, thiosulfene Dialkylamides TEXT: The authors had previously synthesized and described (Ref. 1) some obtained 1.4-piperazine bis-carbothiosulfene dialkylamides. AUTHORS: TEXT: The authors had previously synthesized and described (Ref. 1) some that the synthesized and described (Ref. 1) some of the compounds obtained the compounds of the compound of the compound 1,4-piperazine bis-carbothiosulfene dialkylamides. The compounds obtained the sulfur vulcanization were tested for their accelerating effect in the present case, hydrogen The their accelerating in the present alkaline medium. The of natural and synthetic rubbers or piperidine in an alkaline medium. TITLE: of natural and synthetic rubbers. In the present case, hydrogen sulfid in an alkaline medium.

Was reacted with morpholine or piperidine acids were condensed with soft the resulting dithiocarbamic acids were condensed. Was reacted with morpholine or piperidine in an alkaline medium. With sodium salts of the resulting dithiocarbamic The following four hither secondary aliphatic amines in an acid medium. PERIODICAL: sodium salts of the resulting dithiocarbamic acids were condensed hitherto rhe following four hitherto rhe following alignment in an acid medium. The following dimethylamide secondary alignment and acid medium carbothiosulfene dimethylamide unknown products resulted: 4-morpholine carbothiosulfene gecondary aliphatic amines in an acid medium. The following four hither the carbothiosulfene dimethylamide (II). 1-piperidine carbothiosulfene diethylamide (II). 1-piperidine carbothiosulfene diethylamide (II). 4-morpholine carbothiosulfene diethylamide (II). unknown products resulted: 4-morpholine carbothiosulfene dimethylamide (II), 1-piperidine carbothiosulfene diethylamide (II), 4-morpholine carbothiosulfene and 1-piperidine carbothiosulfene thiosulfene dimethylamide (III). (I), 4-morpholine carbothiosulfene diethylamide (II), 1-piperidine carbothiosulfene diethylamide (III), and 1-piperidine carbothiosulfene diethylamide (III), and 1-piperidine carbothiosulfene diethylamide (IV). Schemes: ethylamide (IV). ethylamide (IV). Schemes: Card 1/2

Synthesis of Some 4-Morpholine- and 1-Piperidine S/079/60/030/009/014/015 Carbothiosulfene Dialkylamides B001/B064

$$0 \longrightarrow N-C(=S)SNa + HN(R)_2 \longrightarrow 0 \qquad N-C(=S)SN(R)_2 + NaI + HI ;$$

(I)  $R = CH_3$ , (II)  $R = C_2H_5$  and

$$N-C(=S)SNa + HN(R)_2 + I_2 \rightarrow N-C(=S)SN(R)_2 + NaI + HI;$$

(III) R =  $\text{CH}_3$ , (IV) R =  $\text{C}_2\text{H}_5$ . The syntheses are described in detail in the experimental part. There is 1 Soviet reference.

ASSOCIATION: Nauchno-issledovatel'skiy institut shinnoy promyshlennosti

(Scientific Research Institute of the Tire Industry)

SUBMITTED: September 25, 1959

Card 2/2

3/032/62/028/006/004/025 3110/3101

LYMER Da: Uspel'nikova, M. P., and Lystsova, G. G.

TIPLE: Determination of small amounts of bismuth in products containing non-ferrous and platinum metals

PARTICUTORE. Zavodskaya laboratoriya, v. 28, no. 6, 1962, 659

The Direction of NaNO. In this process the main fractions of copper and nickel along with the platinum metals in the form of nitrite complexes are dissibled, whilst bi, Fe, Te, part of Se, and small amounts of Cu and Ni retain in the sediment. The diethyl dithiocarbinates of Bi are extracted by chloroform at pH = 11 - 12, those of Se at pH = 4 - 6.2, and those of Te at pH = 4 - 6.8. Platinum metals, copper, and nickel form no carbaminates in the presence of NCN. Iron can be bound as a tartrate complex. Bi is colorisetrically determined with MI after decomposition of the bismuth carbaminate with MNO, and reduction of Bi with thiourea. The maximum error in determination is -6p. This method can also be used to determine Bi in copper slimes. There is 1 table.

Determination of small ...

Determination of small ...

AbbiCIMTICE: Moril'skiy gorno-metallurgicheskiy kombinat im. A. F.
Exveryagina (Moril'sk Mining and Metallurgical Combine imeni
A. P. Zavenyagin)

Darl 2/2

MARCHENKO, N.A.; RAYBER, Z.S.; LIPKO, S.K.; OS'MAKOVA, V.T.; KRYMER, S.Ye.; LOMEKHOV, A.S.; STREL'NIKOVA, N.P.; KORCHEMNAYA, Ye.K.; NAUMOVA, V.I.

Exchange of experience. 7av.lab. 28 no.10:1192-1193 162. (MIRA 15:10)

1. Khar'kovskiy politekhnicheskiy institut imeni Lenina (for Marchenko, Rayber, Lapko). 2. Severnyy nikel'nyy kombinat (for Kreymer, Lomekhov). 3. Noril'skiy gorno-metallurgicheskiy kombinat imeni A.P. Zavenyagina (for Strel'nikova). 4. Institut geokhimii i analiticheskoy khimii imeni V.I. Vernadskogo (for Korchemnaya, Naumova).

(Chemistry, Analytical)

\$/032/62/028/010/002/009 B117/B186

AUTHOR:

Strel'nikova, N. P.

TITLE:

Separation of sulfur and selenium by extraction

PERIODICAL:

Zavodskaya laboratoriya, v. 28, no. 10, 1962, 1193

TEXT: Tributyl phosphate and carbon tetrachloride were used to separate sulfur and Se(IV) from 6-12 N HCl solutions: The sulfates remained in the liquid phase. Selenites could be extracted only up to 95-97%, as opposed to tellurates which can be completely extracted. Small quantities of selenium remaining in the solution can be separated by reducing Se(IV) with hydroxylamine hydrochloride. Sulfur is determined in the form of BaSO<sub>4</sub>.

ASSOCIATION: Noril'skiy gorno-metallurgicheskiy kombinat im. A. P. Zavenyagina (Noril'sk Mining and Metallurgical

Combine imeni A. P. Zavenyagin)

Card 1/1

S/032/62/028/011/002/015 B106/B186

AUTHORS:

Strel'nikova, N. P., Lystsova, G. G., and Dolgorukova, G. S.

TITLE:

Determination of impurities in selenium

PERIODICAL: Zavodskaya laboratoriya, v. 28, no. 11, 1962, 1319 - 1321

TEXT: Cu, Ni, Co, Pb, and As impurities in selenium were determined quantitatively. Cu, Ni, Co, and Pb were separated from the bulk of Se by extracting their diethyl-dithio carbamates with chloroform from alkaline solution (phenolphthalein). Cu was extracted in the presence of Trilon B to prevent the coextraction of lead; lead extraction was effected with addition of potassium cyanide to prevent the coextraction of copper. The relevant metals were reextracted from the extracts with HNO<sub>3</sub>. Finally,

Cu was determined with diethyl-dithio carbamate, Ni with dimethyl glyoxime, Co with nitroso R-salt, and Pb with dithizon. Cu, Ni, Co, and Pb can also be separated by adsorption on a cationite from selenium which is not adsorbed from 0.1 N hydrochloride solution. To determine the As contained in Se, As was distilled from sulfate solution in the presence of HCl, hydrazine sulfate, and potassium bromide. In the distillate As was deter-

Card 1/2

Determination of impurities in selenium

S/032/62/028/011/002/015 B106/B186

mined on the basis of the color reaction with ammonium molybdate in sulfate solution in the presence of hydrazine sulfate. Using the methods described, the above-mentioned impurities can be determined in Se in concentrations of 10-3%. There is 1 table.

ASSOCIATION: Noril'skiy gornometallurgicheskiy kombinat im. A. P. Zavenyagina (Noril'sk Combine of Mining and Metallurgy imeni A. P. Zavenyagin)

card 2/2

s/079/62/032/005/007/009 D204/D307

Eytingon, I.I., and Strel'nikova, N.P.

Synthesis of polychlorobenzene-sulphene-dialkylamides AUTHORS:

Zhurnal obshchey khimii, v. 32, no. 5, 1962, 1653-1655 TITLE:

PERIODICAL: TEXT: The authors prepared 5 new compounds:

 $-S-NR_2$  (where R = Me, iso-Pr) and Cl-

(where R = Me, Et, iso-Pr), by the oxidative condensation of the corresponding tri- and pentachloro-thiophenols and secondary amines. Corresponding of a method consisted of a slow mixing of the thiophenol, in the form of its Na salt, into an aq. solution of the amine, at 0-30c, followed by addition of aq. NaOCl. The products were insoluble in water but dissolved in constant. Tuble in water but dissolved in organic solvents.

ASSOCIATION: Nauchno-issledovatel akty institut shinnoy promyshlennosti (Scientific Research Instituto of the Tire Industry) Card 1/2

Synthesis of polychlorobenzene- ...

S/079/62/032/005/007/009 D204/D307

SUBMITTED: May 30, 1961

Card 2/2

EYTINGON, I. I.; STREL'NIKOVA, N. P.

New polychlorothiophenyl esters of N, N-dialkylthiocarbasic acids. Zhur. ob. khim. 32 no.12:3888-3890 D '62.

(MIRA 16:1)

(Carbamic acid)

STREL'NIKOVA, N.P.

Extraction of diethyldithiocarbamates in the analysis of various materials from the metallurgical production. Trudy Kom.anal.khim. 14:305-311 163. (MIRA 16:11)

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653520007-2"

SHVARTS, A.G.; EYTINGON, I.I.; FROLIKOVA, V.T.; STREL'NIKOVA, N.P.

Some requirements for alkylphenol-formaldehyde resins used for the vulcanization of butyl rubber. Kauch. i rez. 22 no.10: 17-18 0 '63. (MIRA 16:11)

1. Nauchno-issledovatel'skiy institut shinnoy promyshlennosti.

的,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人

PAVLOVA, V.N.; STREL'NIKOVA, N.P.

Determination of microquantities of copper in nickel electrolytes. Zav.lab. 29 no.5:548 '63. (MIRA 16:5)

1. Noril'skiy gorno-metallurgicheskiy kombinat im. A.P.Zavenyagina. (Copper-Analysis) (Nickel compounds)

是在我们就就在我们的自己的对数,我们就是我们的自己的,我们就会说到这种,我们就是我们的人,我们就是我们的人,我们就会没有一个人,我们就是我们就是我们的人,我们就

BELOKOPYTOV, V.S.; STREL'NIKOVA, N.P.

Central chemical laboratory of the Noril'sk Mining and Metallurgical Combine striving for a citation as a communist labor team. Zav.lab. 29 no.5:630-631 '63. (MIRA 16:5)

1. Ispolnyayushchiy obyazannosti nachal'nika TSentral'noy khimicheskoy laboratorii Noril'skogo gorno-metallurgicheskogo kombinata (for Belokopytov). 2. Rukovoditel' metodicheskoy gruppy TSentral'noy khimicheskoy laboratorii Noril'skogo gorno-metallurgicheskogo kombinata (for Strel'nikova).

(Noril'sk--Metallurgical laboratories)

EYTINGON, I.I.; STREL'NIEOVA, A.F.

Polychlorobenzenesulfenamides based on morpholine, piperidine, and cyclohexylamine. Zhur. ob.khim. 31 no. 3:1003-1607 ky '64. (MIRA 17:7)

1. Nauchno-issledovatel'skly institut shirnoy proxyshlennosti.

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653520007-2"

L 3379-66 EWT(m)/EPF(c)/EWP(j) RM

ACCESSION NR: AP5022090

UR/0138/65/000/008/0009/0012

nt 678, 044:536, 45, 096

AUTHOR: Extingon, I. I.; Krasukhina, M. M.; Kavun, S. M.; Strel'nikova, N.

Butyugin, V. K.

TITLE: Thermal conversion of an N-cyclohexylbenzothiazole-2-sulfenamide vulcanization accelerator (

SOURCE: Kauchuk i rezina, no. 8, 1965, 9-12

TOPIC TAGS: <u>rubber</u> chemical, organic substituted amide, organic sulfur compound, EPR spectrum, thermochemistry, free radical, vulcanization, reaction mechanism, heat resistance

ABSTRACT: The effect of rubber mixing and vulcanization temperatures on the conversion of sulfenamide Ts [Abstractor's note: Compound corresponds to "Santocure."] and the effect of additives on the thermal stability of this vulcanization accelerator were studied. Heating of the sulfenamide samples at 105-110C for 2 and 6 hours did not produce significant change in the melting of the material except to lower its melting temperature slightly. Thermal decomposition of the sulfenamide at 140 -145 C is preceded by an induction period whose length depends

Card 1/2

L 3379-66

ACCESSION NR: AP5022090

on the impurities present. Decomposition is accompanied by spontaneous temperature increase and evolution of hydrogen sulfide and amine. 2-Mercaptobenzothiazole, its cyclohexylamine salt, and 2,2'-dibenzothiazyldisulfide were separated and identified among the resinous decomposition products. The effects of adding these three compounds or sulfur to mixes containing the sulfenamide were studied. Sulfur had the greatest effect on the thermal stability of the accelerator at 140-145 C, and the addition of 1% sulfur on weight of the sulfenamide reduced the induction period from 150 to 10 minutes. Examination of EPR spectra established that the thermal decomposition of this sulfenamide is a radical chain process. The presence of benzothiazolesulfide radicals was indicated. Orig. art. has: 3 figures and 4 equations

ASSOCIATION: Nauchno-issledovatel'skiy institut shinnoy promyshlennosti

(Scientific Research Institute for the Tire Industry), H

SUBMITTED: 00

ENCL: 00

SUB CODE:

NR REF SOV: 001

OTHER: 002

Card 2/2 /hd

SHOW A TURN OF THE FELL TO STAN A PICTURE AND THE PROPERTY OF THE PROPERTY OF

SOV/137-58-10-20802

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 10, p 65 (USSR)

AUTHORS: Sirota, N.N., Samsonov, G.V., Strel'nikova, N.S.

TITLE: Electrical Properties of Some Metalloid Compounds and Solid

Solutions Thereof (Elektricheskiye svoystva nekotorykh metal-

lopodobnykh soyedineniy i ikh tverdykh rastvorov)

PERIODICAL: Sb. nauchn. tr. Mosk. in-t tsvetn. met. i zolota, nauchno-

tekhn o-vo tsvetn metallurgu 1957 Nr 30, pp 368-374

ABSTRACT The results of measurement of the electrical resistivity

and thermoelectromotive force of a number of carbides, silicides, borides, nitrides, and certain binary alloys thereof, all in a Cu-containing vapor, and of preliminary determination of the magnetic susceptibility of a number of two-component alloys of these compounds are presented. The specimens for investigation are made by hot extrusion. The electronic structure of the objects of investigation is used as the basis for discussion

of certain results of the work. 1. Intermetablic compounds--Flectrical

properties 2. Alloys--Electrical properties R.A.

Card 1/1

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SAMSONOV, G.V. [Samsonov, H.V.]; STREL'NIKOVA, N.S.

On the thermoelectromotive force of some metallic borides and carbides in contact with copper [with surrary in English]. Ugr. fiz.zhur. 3 no.1:135-138 Ja-F '58.

(MIRA 11:4)

1.Institut metalokeramiki ta spetsial'nikh splaviv AN URSR.

(Thermoelectricity) (Borides--Electric properties)

(Carbides--Electric properties)
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SOV-21-58-8-9/27

AUTHORS: Samsonov, S.V., Neshpor, V.J., Strel'nikova, N.S.

了。 大型的转数<mark>的数据,在1967年的,在1968年中,在1968年中,在1968年中,在1968年中,在1968年中,在1968年中,1968年中,1968年中,1968年中,1968年中,1968年中,1968年中,19</mark>

TITLE: Magnetic Susceptibility of Solid Solutions of Some Metal-Like

Compounds (Magnitnaya vospriimchivost' tverdykh rastvorov

nekotorykh metallopodobnykh soyedineniy)

PERIODICAL: Dopovidi Akademii nauk Ukrains'koi FSR, 1958, Nr 8,

pp 838-840 (USSE)

ABSTRACT: Investigations of magnetic susceptibility of metal-like com-

rounds can contribute to an explanation of the nature of chemical bounds in these phases. The authors investigated the magnetic susceptibility of the single-phase solid solutions

of the following metal-like compounds: ZrC-NbC; TaC-NbC; TaP2-ZrB2 and TiC-TiN. Since the measurements of absolute susceptibility were difficult due to experimental conditions, the values of relative susceptibility were determined by taking that of one of the components for unity. The results

of experiments are presented in graphical form showing the dependence of magnetic susceptibility on the concentration. The two curves for the alloys NbC-IrC and TaB2-ZrB2 have peaks,

Card 1/2 whereas the curve for NbC-TaC does not possess a peak. In

SOV-21-58-8-9/27

Magnetic Susceptibility of Solid Solutions of Some Metal-Like Compounds

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the alloy TiC-TiN, a sharp fall of the magnetic susceptibility is observed with increasing TiC concentration. The authors attempt to interpret theoretically these experimental data. There are 2 graphs and 5 references, 3 of which are Soviet,

1 German and 1 Polish.

ASSOCIATION: Institut metallokeramiki i spetssplavov AN UkrSSR (Institute

of Metalloceramics and Special Alloys of the AS UkrSSR)

By Member of the AS UkrSSR, V.N. Svechnikov PRESENTED:

February 26, 1958 SUBMITTED:

Russian title and Russian names of individuals and institutions NOTE: appearing in this article have been used in the transliteration.

1. Intermetallic compounds--Magnetic properties 2. Intermetallic

compounds--Phase studies

Card 2/2

Strelnikov	Formation of ground water of the Karatau (Mangyshlak)  Vegion. Zh. Sydykov and V. A. Strel'nikova. Irrest. a  Akad. Nauk Karath. S.S.R. Sec. Cest. 1950, No. 22.  112-25(in Russian).—A report in which a table of anion- cation analyses of the ground waters is presented.  Gladys S. Macy	Maar
1 { !	40 80	
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DANIYELYAN, E.Ye.; STREL'NIKOVA, V.G.

de l'ambignes d'inferentaliste de la company de la comp

Cases of mycosis caused by the fungi Microsporum gypseum and Microsporum lanosum in Erivan.Zhur. eksp. i klin. med. 3 no.l: 105-108'63. (MIRA 16:10)

1. Yerevanskiy gorodskoy kozhno-venerologicheskiy dispanser. (ERIVAN — MYCOSIS) (ERIVAN — MICROSPORUM)

# STREL'NIKOVA, V.I.

Preparation of leaf sections. Biol. v shkole no.1:89
Jaur "63. (MIRA 16:6)

1. Shkola No. 63, Moskva.
(Botany—Audio-visual aids)

#### CIA-RDP86-00513R001653520007-2 "APPROVED FOR RELEASE: 08/26/2000

YERU, I.I.; LANGE, A.A.; ZEYDLINS, Ye.M.; STRELUMIKOVA, V.P. Catalytic hydrogenation of quinoline for the production of the "Kyusol"

(MIRA 16:9) repellent. Koks i khim. no.10:46-49 '62.

1. Ukrainskiy uglekhimicheskiy institut. (Kyusol) (Coke industry-By-products)

KUIAYEV, B.C.; SHELFNITOVA, Te.A.

Reflex effect of pressure changes in the cardiac cavities of a frog on peripheral blood circulation and the neartbeat rate.

Biul. eksp. biol, i med. 56 no.9:24-29 S \*\*163.

(MIRA IN-10\*\*)

1. Iz instituta normal\*noy i patologicheskoy fizicionii ANN J.CR.

Moskva. Predstavlena deystvitelinym chlenom AMN SUSh A.V. 1888-

的现在分词,这种人的现在分词,我们就是不是一个人的人的人,我们就是这个人的人的人,我们就是这个人的人的人,我们就是这些人的人,我们就是这个人的人的人,我们就是这

Jinskiz.

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STRITTENEVE, Ye.Ye., June Chem Sci — di q " Study of resotions of 2.

of complete formation of organic cultur compounds with other organic culture continued. Tomak "Totak, 1959. 16 pp with graphs (Vin of Higher duer tion. Tanak "Totak Winter V.V. Knybpakev), 130 copies:

(VI, 29-57, 126)

7/0 -

s/2648/63/000/015/0003/0012

ACCESSION NR: AT4012396

AUTHOR: Gruza, G. V.; Kaznacheyeva, V. D.; Strel'nikova, Yu. P.

TITLE: The structure and ageostrophicity of a wind field over the valleys and

mountainous regions of Central Asia SOURCE: Tashkent. Sredneaziatskiy nauchno-issledovatel skiy gidrometeorologi-

cheskiy institut. Trudy\*, no. 15(30), 1963, 3-12

TOPIC TAGS: wind, saturation rate, ageostrophicity atmospheric circulation,

wind velocity, wind profile

ABSTRACT: The main characteristic of the structural function of winds over mountains is its rapid saturation, which occurs first at short distances and later does not depend on distance. A formula is derived to calculate this independence of the structural function and the distance. Because of local circulations connected with the diversity of the mountain relief, wind velocities, even at short distances, are also statistically independent. To find out the difference between the absolute values, average coefficients were calculated characterizing the anisotropy. It was proved that the flow of wind over mountains is more isotropic than over valleys. The turbulent influence of mountain systems

Cord 1/2

ACCESSION NR: AT4012396

causes an increase in the intensity of the wind. The comparison between real and geostrophic winds is important, but the differences between these winds do not correctly represent the ageostrophicity of atmospheric movements. The ageostrophic deviations depend on acceleration while the average acceleration in the atmosphere equals 0. The coefficient of the connection between the vectors of a real and a geostrophic wind is shown and the value of the vector connection is calculated according to a derived formula. The vector connection between the two types of winds is no worse over mountains than over valleys. The real and geostrophic winds are, on the average, stronger over valleys than over mountains. The braking effect of orographic obstacles occurs upward along the flow. "A. Zhamankulova, M. Ibragimova, S. Magdaliyeva, and T. Samsonova, students of the Tashkentskiy gosudarstvenny\*y universitet im. V. I. Lenina (Tashkent State University) participated in the collection and processing of data for the article."

ASSOCIATION: Sredneaziatskiy nauchno-issledovatel'skiy gidrometeorologicheskiy institut, Tashkent (Central Asian Scientific Research Hydrometeorological Institute, Tashkent)

SUBMITTED: 00 ·

DATE ACQ: 20Feb64 ENCL: 00

SUB CODE: ES

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OTHER: 001

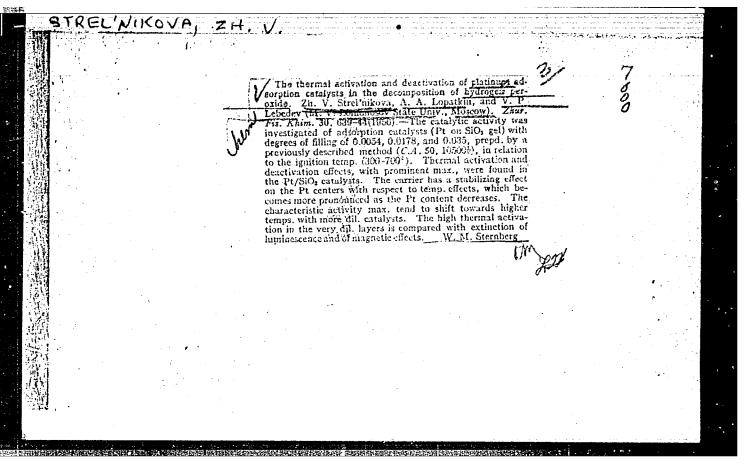
Card 2/2

LOPATKIN, A.A.; STREL'NIKOVA, Zh.V.; LEBEDEV, V.P.

Dependence of the catalytic activity of platinum on the temperature of calcination. Vest.Mosk.un. Ser.mat.,mekh.,astron.,fiz.,khim. 11 no.1:255-259 '56. (MIRA 10:12)

1. Kafedra obshchey khimii Moskovskogo universiteta.
(Platinum) (Catalysis)

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STREL'NIKOVA, Zh. V.

USSR/ Chemistry - Physical chemistry

Card 1/2

Pub. 147 - 2! / 35

Authors

: Strel'nikova, Ch. V.; Lopatkin, A. A.; and Lebedev, V. P.

Title

: Thermal activation and deactivation on Pt-black during hydrogen peroxide decomposition

Periodical : Zhur. fiz. khim. 30/1, 196-201, Jan 1956

Abstract

: Experiments were made to determine the effect of calcination temperature ranging from 100 to 700° C. on the catalytic activity of platinum black during the decomposition of hydrogen peroxide. Hydrogen peroxide decomposition was used in the role of a control process for the purpose of determining the activity of the Pt-black. An extreme dependence upon the activity maxima was observed at temperatures of 160, 220, 250 and 500°C. The cause

Institution: Moscow State University im. M. V. Lomonosov

Submitted: July 7, 1955

CIA-RDP86-00513R001653520007-2" APPROVED FOR RELEASE: 08/26/2000

Card 2/2

Pub. 147 - 24/35

Periodical: Zhur. fiz. khim. 30/1, 196-201, Jan 1956

Abstract

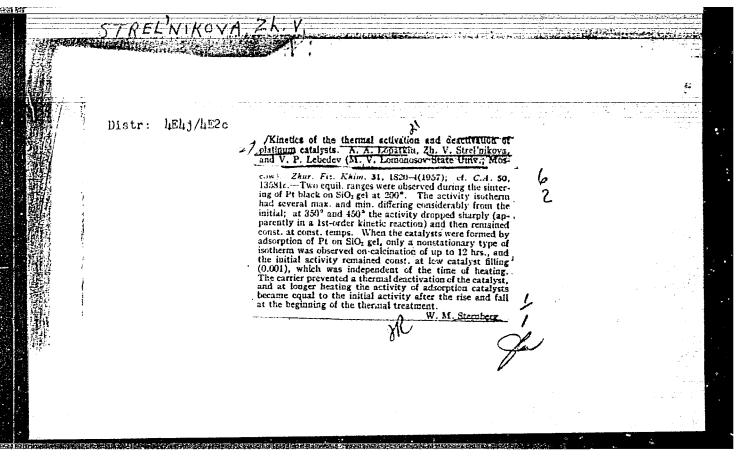
: for the crop in activity at a temperature range of from 250 to 500° C are analyzed. Origination of active centers followed an increase in temperature; these active centers disappear upon reaching a new critical temperature at which the intensity of the active phase increases again. Fourteen references: 9 USSR, 1 USA, 3 Germ., and 1 Eng. (1890-1955). Table; graphs.

LOPATKIN, A.A.; STREL'NIKOVA, Zh.V.; OSIPOVA, N.S.; LEHEDEV, V.P.

Effect of the preliminary roasting on thermal activation and desactivation of platinum catalysts. Vest. Mosk. un. Ser. mat., mekh., astron., fiz. khim., 12 no.5:215-219 '57. (MIRA 11:9)

1. Kafedra fizicheskoy khimii Moskovskogo gosudarstvennogo universiteta.
(Platinum) (Catalysts)

STREL'NIKOVA, Z	H V		
<b>2</b> 5-32 - 3			
	Magnetochemistry of active centers. IV. The relation of the magnetic susceptibility of adsorption platinum cathysts on the roasting temperature. A. A. Locatkin, $Z_{\rm b}$ Strel'nikova, and V. P. Lebegiev (M. V. Lomenogov Sinl Dniv. Moscow). Zhur. Frs. Khim. 31, 195-9(1957); c. C.A. 50(105046, 13531c; 51, 102807.—The magnetic susceptibility, $\phi$ , was detd. for 3 Pr on SiO, catalysts (degree of filling of the surface, $\alpha=0.0054$ , 0.0178, and 0.035) as a function of the preliminary heat-treatment. For $\alpha=0.0178$ and $\alpha=0.035$ the $\phi$ vs. T curves are completely identical. A comparison of data on catalytic activity (based on Ho), decompn.) and magnetic properties showed that for the catalyst with $\alpha=0.0054$ , an increase in activity is for the catalyst with $\alpha=0.0054$ , an increase in activity is accompanied by an increase in the paramagnetism. For the 2 remaining catalysts this is true only below $T=550^\circ$ .		
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STREL'NIKOVA, Zh. V., Cand of Chem Sci — (diss) "Active Centers/Absorptive Platinic Cataltzers, Their Transmission and Agglutination," Moscow, 1959, 13 pp (Moscow State Univ im Lomonosov) (KL, 4-60, 115)

5(4)

sov/156--59-2-10/48

AUTHORS:

Lebedev, V. P., Strel'nikova, Zh. V.

TITLE:

The Self-poisoning of Platinum Adsorption Catalysts (Avtootravleniye adsorbtsionnykh platinovykh katalizatorov)

PERIODICAL:

Nauchnyye doklady vysshey shkoly. Khimiya i khimicheskaya

tekhnologiya, 1959, Nr 2, pp 260.263 (USSR)

ABSTRACT:

The authors explain self.poisoning as a catalytic process in which a reaction product blocks and inactivates an active center of the catalyst with a certain probability. The probability of poisoning is characteristic of the process concerned. Self. poisoning distinguishes itself from the similar phenomenon of the adsorption inhibition by the irreversibility of blocking. As an example the hydrogenation of benzalaniline in solution of absolute alcohol is investigated on platinum applied to silicagel. In this case the blocking was proved on the basis of an analysis of the charge curves by Sokol'skiy who carried out the experiments. The equation for the reaction

is written down in the following way:

$$\frac{1}{\begin{bmatrix} H_2 \end{bmatrix}} = \frac{1}{k \begin{bmatrix} H_2 \end{bmatrix}_0^2} \cdot \frac{1}{t} + \frac{1}{\begin{bmatrix} H_2 \end{bmatrix}_0}, \text{ where } \begin{bmatrix} H_2 \end{bmatrix}_0 \text{ denotes the amount of}$$

Card 1/2

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sov/156-59--2--10/48

The Self-poisoning of Platinum Adsorption Catalysts

hydrogen necessary for the complete hydrogenation of the entire benzalaniline. Figure 1 shows the linear dependence

between  $\frac{!}{[H_2]}$  and  $\frac{1}{t}$ . A calculation - its results are shown

by a table — shows that independent of the number of the catalyst atoms the number of reaction processes amounts to approximately 30 in every platinum atom until the poisoning and that the probability of poisoning  $1/\beta$  is, therefore, 0.033. The kinetic equation of the processes taking place in connection with self-poisoning is derived and graphically represented by figure 2. The authors thank Professor N. I. Kobozev for valuable advice. There are 3 figures, 1 table, and 1 Soviet reference.

PRESENTED BY: Kafedra fizicheskoy khimii Moskovskogo gosudarstvennogo uni-

versitetalm.M.V. Lomonosova (Chair of Physical Chemistry,

Moscow State University imeni M. V. Lomonosov)

SUBMITTED: July 9, 1958

Card 2/2

以以表现的**证据的。我们可以不同时**,我们没有知识,但是是这个特殊的,我也会没有多么,就是我们就是我们的,我们也不是不可以

21127

s/189/60/000/005/002/006 B110/B207

11.1310

Card 1/8

AUTHORS:

Lebedev, V. P., Strel'nikova, Zh. V.

Kinetics and decomposition mechanism of hydrogen peroxide TITLE:

on adsorption platinum catalysts

Vestnik Moskovskogo universiteta. Seriya 2, khimiya, no. 5, PERIODICAL:

1960, 25-30

TEXT: Hydrogen peroxide is decomposed by platinum applied to the following carriers: carbon, silica gel, aluminum oxide, cadmium oxide, and metallic cadmium according to the theory of active atom groups (Ref. 1: N. I. Kobozev Zh. Fiz. Khimii 13, 1, 1939) at activity centers with odd Pt atomic grouping: [Pt], [Pt], [Pt], [Pt], The authors try to explain this phenomenon. In general, the heterogeneous  ${\rm H_2O_2}$  decomposition on Pt catalysts is kinetically assumed as reaction of the first order. Fig. 1 shows the results of experiments logarithmically according to the fundamental equation of chemic- $\log[-d[H_2O_2]/dt] = \log k + n\log[H_2O_2]$  (1). The formal order al kinetics: of reaction may change according to the nature of the carrier: at CdO = 0.8;

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s/189/60/000/005/002/006 B110/B207

Kinetics and ...

silica gel = 1.2; coal 1.7. According to E. I. Schpitalsky's (Ref. 8: Z. phys. Chem. 122, 67, 1926) and N. I. Kobozev's (Ref. 9: ZhFKh, 15, 882. 1945) theory of the heterogeneous hydrogen perovide decomposition. 1945) theory of the heterogeneous hydrogen peroxide decomposition in homogeneous catalysis, the intermediate product Pt $\begin{pmatrix} 0 \\ 0 \end{pmatrix}$ :  $2H_2O_2 + Pt \xrightarrow{K}$  Pt $O_2 + H_2O_3$  is assumed to form reversibly; its monomolecular decomposition Pt $O_2 \xrightarrow{K_r}$  Pt +  $O_2$  determines the total reaction rate. -  $d[H_2O_2]/dt = k_r[PtO_2]$ . If [Pt] is the amount of platinum, effecting the  ${\rm H_2^{0}_2}$  decomposition until the beginning of the reaction, the equivalent amount at the steady process is:  $[Pt]_8 = [Pt] - [Pt0_2]$  (3). equilibrium constant between  $H_2^{0}$  and active Pt centers is the following:  $K = [PtO_2]/H_2O_2[(Pt)-(PtO_2)]$ . When  $[PtO_2]$  from (3) is introduced into (1) the following kinetic equation is obtained:  $-d\left[H_2O_2\right]/dt = k_r \cdot K \cdot \left[H_2O_2\right]^2 \cdot \left[Pt\right] / (1+K\left[H_2O_2\right])$  (5), or  $1/d\left[H_2O_2\right]/dt = -d\left[H_2O_2\right]$  $1/(k_r \cdot K \cdot [Pt]) \cdot 1/[H_2O_2]^2 + 1/k_r \cdot [Pt]$  (6). Only at high  $H_2O_2$  concentrations, Card 2/8

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Kinetics and

deviations occur from the linear function which are explained by interactions of the intermediate products. The increase of the reaction order corresponds to the relative decrease of  $K \cdot [H_2 \circ_2]^2$ , which confirms the effect of the carrier upon the equilibrium between susbstrate  $(\mathrm{H_2O_2})$  and intermediate  $(PtO_2)$ . Independent of the carrier and its Pt concentration, the activation energy of the intermediate is constant (30 000 cal/mole) (Table 2) which exceeds the apparent activation energy of 6000-12000 cal/mole determined according to Arrhenius. According to (5), however, any formal kinetic concerning to (5), however, any formal kinetic concerning to (5). stant is a function of the product of constants of the intramolecular recombination constant  $k_r$  and the equilibrium constant  $K_{\circ}$ . The apparent activation energy according to Arrhenius is the sum of the effectively positive activation energy of the intramolecular recombination and the enthalpy of the intermediate whose formation proceeds exothermically: with the catalyst Pt (6%)/CdO, K is 5.35 cm<sup>-6</sup> at  $20^{\circ}\text{C}$  and at  $25^{\circ}\text{C} = 2.64 \text{ cm}^{-6}$ ; AH is therefore -24000 cal/mole. The values according to Arrhenius can thus be explained. In the heterogeneous  ${\rm H_2O_2}$  decomposition, the intermediate

Card 3/8

21127

s/189/60/000/005/002/006 B110/B207

Kinetics and

product Pt 18 active. A Pt atom with 2 free valences is necessary for its formation. With respect to the electron sheath, Pt may be: 5d<sup>8</sup>6s<sup>2</sup>, and 5d<sup>9</sup>6s<sup>1</sup>. The first two states are saturated; at 5d<sup>9</sup>6s<sup>1</sup>, two valences are free. If the Pt atom occurs in inactive states, it may presumably be activated by interaction with the substrate molecule at the expense of the exothermic energy of the intermediate. If two Pt atoms are close together in the state 5d 6s 1, spin interaction takes place and a system consisting of two atoms with saturated valences is formed. Unsaturated Pt atoms of the  $5d^96s^1$  state, effecting the  ${\rm H_2O_2}$  decomposition can therefore only exist in odd-numbered arrangement. There are 4 figures, 2 tables, and 12 references: 10 Soviet-bloc and 2 non-Soviet-bloc.

Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova Kafedra fizicheskoy khimii (Moscow State University imeni ASSOCIATION:

M. V. Lomonosov Department of Physical Chemistry)

SUBMITTED:

July 20, 1960

Card 4/8

STREL'NIKOVA, Zh.V.; LEBEDEV, V.P.

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Composition of active centers in the hydrogenation of unsaturated compounds. Vest. Mosk. un. Ser. 2: Khim. 16 no.1:38-41 Ja-F '61. (MIRA 14:4)

(Hydrogenation)

(Unsaturated compounds)

STREL'NIKOVA, Zh.V.; TROSMAN, E.A.; LEBEDEV, V.P.

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Catalytic activity of platinum deposited on tadmium oxide. Zhur. fiz.khim. 35 no.6:1327-1330 Je '61. (MIRA 14:7)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Komonosova.
(Platimum) (Hydrogen peroxide)

STREL'NIKOVA, Zh. V.; LEBEDEV, V. P.

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Change of activity of adsorption platinum catalysts during prolonged storage. Vest. Mosk. un. Ser. 2: Khim. 16 [1.e.17], no.6:75 N-D 162.

1. Kafedra fizicheskoy khimii Moskovskogo universiteta.

(Platinum catalysts)

STREL'NIKOVA, Zh.V.; TROSMAN, E.A.; LEBEDEV, V.F.

等的<mark>数位别性感觉规则的形式的数据形式和数据使</mark>现的结果。

Corrosive sublimate poisoning of platinum on cadmium oxide adscrption catalysts in the decomposition of hydrogen peroxide. Zhur. fiz. khim. 36 nc.ll:2469-2472 N'62. (MIRA 17:5)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

<u>L 16932-63</u> EPR/EPF(c)/EWP(q)/EWT(m)/BDS AFFIC Ps-4/Pr-4 RM/WW/JD S/076/63/037/004/024/029

AUTHOR: Strel'nikova, Zh. V., Lebedev, V. P.

THE PROPERTY OF THE PROPERTY O

69

TITLE:

Action of acids on platinum adsorption catalysts in the decomposi-

tion of hydrogen peroxide

PERIODICAL: Zhurnal fizicheskoy khimii, V. 37, No. 4, 1963, 920-922

TEXT: A study is made of the action of nitric, sulfuric, and hydrochloric acids on platinum catalysts when it is accompanied by the decomposition of hydrogen peroxide. Basically the purpose of the study is to clarify the anomalous action of hydrochloric acid. Under the simultaneous action of the hydrochloric acid and hydrogen peroxide, part of the atoms of the catalyst go into solution. At the same time the catalytically more active surface atoms enter into solution. Only a small part (not more than 1%) of the surface atoms of the catalyst are catalytically active. There are 2 tables. The most important English-language source reads as follows: H. E. Kluksdanl, R. J. Houston, J. Phys. Chem., 65, 1469, 1961.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet (Moscow State University)

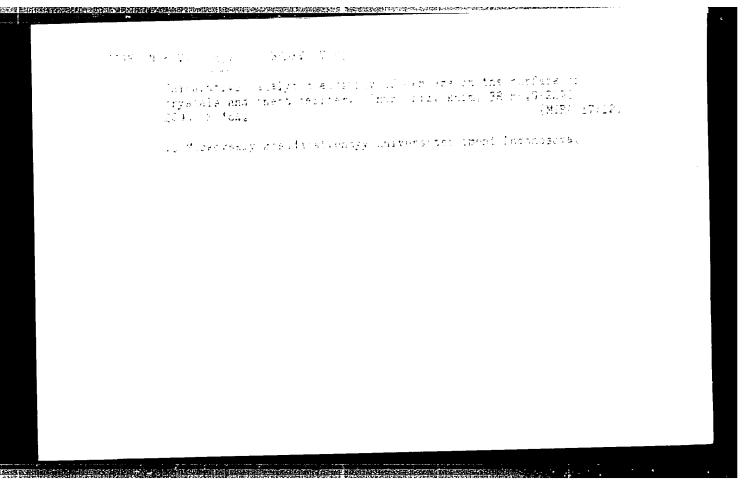
SUBMITTED:

June 19, 1962

Card 1/1

STRELINIKOVA, 2h.V.; independent admiration catalysts in the stromposition of hydrogen peruxide. Thur. fiz. khim. 37 no. 4: 9.0-922 dp 162.

1. Monkovskiy gosudarsivennya universite.



ITEL'NIKUMA, Dh.V.; LEBEDEV, V.P.

Evaluation of the activating and deactivating action during thermal treatment and variation in the degree of filling of adsorption platinum catalysts. Vest. Mosk. un. Ser. 2: Khim. 20 no.2:9-15 Mr-Ap '65.

(MIRA 18:7)

1. Kafedra fizicheskoy khimii Moskovskogo universiteta.

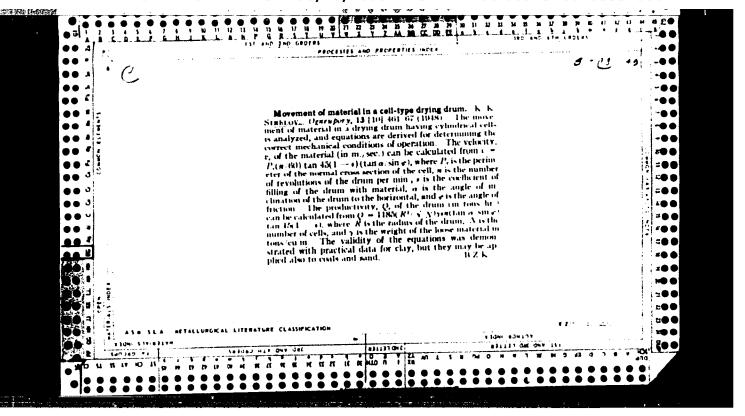
STREL INIKOVA, Zh.W.; LEBEDEV, V.P.

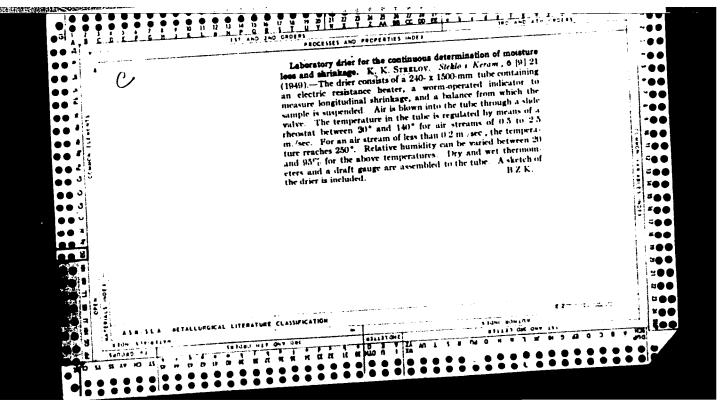
Effect of the vanishing of activity of platimum catalysts on silica gel for hydrogenation in diluted layers. Vest. Mosk. un. Ser. 2:Khim. 20 no.4:7-9 Jl-Ag '65. (MIRA 18:10)

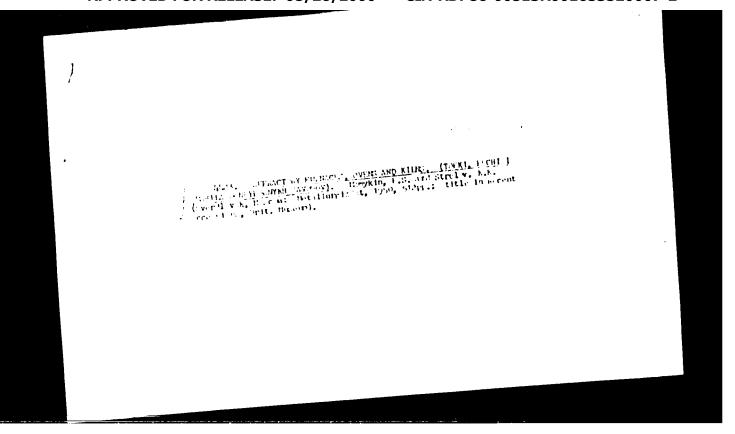
1. Kafedra fizicheskoy khimii Moskovskogo gosudarstvennogo universiteta.

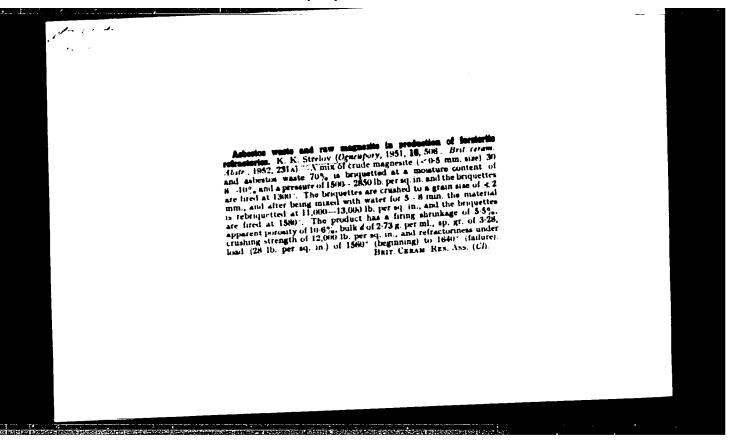
STRELOV, Aleksandr Borisovich; IGOSHIN, N.G., red.

[M.V.Frunze Higher Naval School of the Order of the Red Banner and the Orders of Lenin and Ushamil Vysshee Voenno-Morskoe Krasnoznamennoe ordenov Lenina i Ushakova uchilishche imeni M.V.Frunze. Moskva, DOSAAF, 1957. 54 p. (MLAA 17:5)









TREMOV, K. X.

Technical control of the roduction of refractory materials Everdlovsk, Gos. nauchnotekhn. izd-vo lit-ry to chernoi i tsvetnoi metallurgii, 1952. 307 p. (54-17213)

TN677.27

### "APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653520007-2

STRELOV, K.K., inchener Efficient manufacture processes for magnesite refractories. Ogneupory 17 no.5:202-203 My 152.

1. Gorno-keramicheskiy tekhnikum Ministerstva chernoy metal-(Refractory materials) lurgii.

STREELOV, K.K.; MAMYKIN, P.S.

Production of forsterite refractory materials from waste asbestos and raw magnesite (MgCO<sub>3</sub>). (In: Soveshchanie po eksperimental'noi mineralogii i petrografii. 4th, Moscow, 1952. Trudy, Moskva, 1953. No.2. p.235-249).

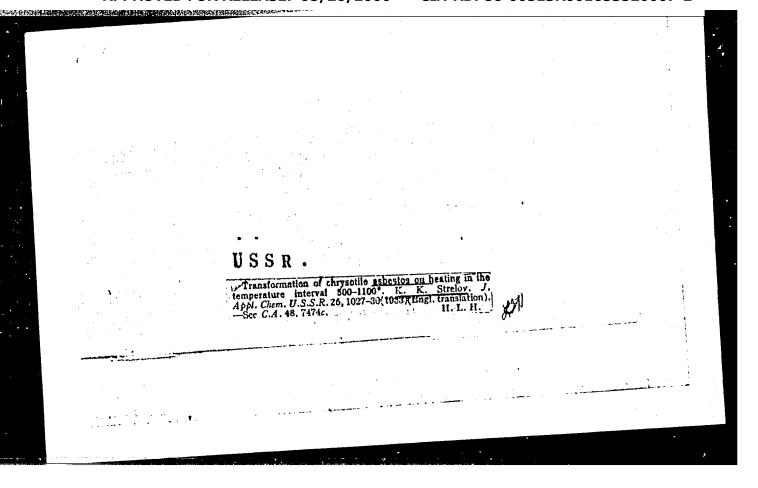
1. Ural'skiy politekhnicheskiy institut im. S.M.Kirova.
(Refractory materials) (Magnesite) (Asbestos)

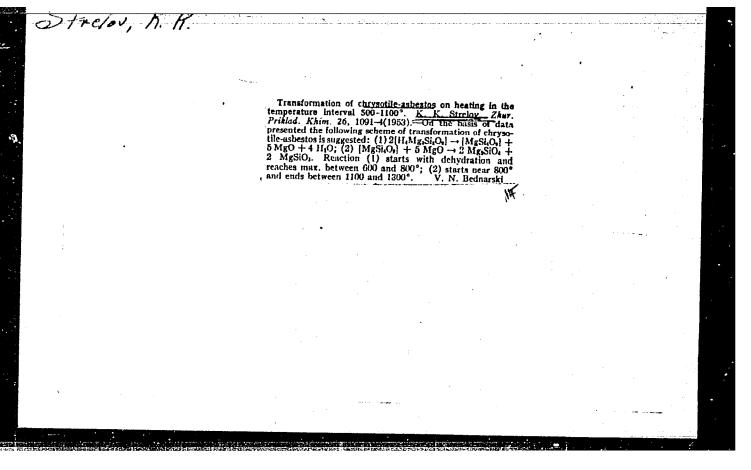
STRELOV, K.K., kand.tekhn. nauk

Movement of the batch in retary kilns. Ogneupery 18 ne.5:195-198 My 153. (MIRA LL:10)

1.Gorno-keramicheskiy tekhnikum, Ministerstve mestney promyshlenmesti. (Kilns, Retary)

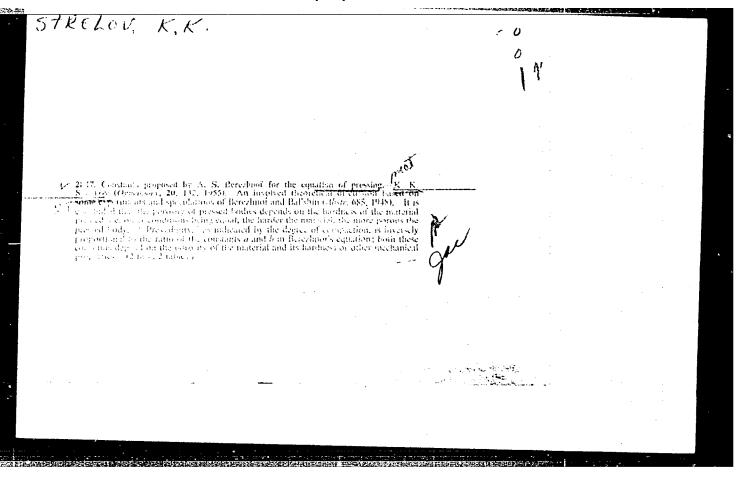
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### CIA-RDP86-00513R001653520007-2



STRELLOV, KK

USSR Chemical Technology. Chemical Products and Their Application

I-12

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Silicates. Glass. Ceramics. Binders.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31578

Author : Strelov K.K., Aristov G.G., Saparov V.V.

Title : Production of Unfired Magnesite-Chromite Articles

for Vaults

Orig Pub: Ogneupory, 1956, No 4, 145-149

Production of unfired magnesite-chromite articles Abstract:

Production of unfired magnesite-chromite articles for vaults has been put into effect at 3 plants of Glavuralmet. Composition of paste (in % by weight): chromite (0.5 - 3 mm) 30, magnesite supplied by KNR (Chinese People's Republic ?), 70, or misture of magnesite powder (30-40% 3-0 mm) and magnesite brick scrap (40-30% less than

Card 1/2

USSR Chemical Technology. Chemical Products and Their Application

I-12

Silicates. Glass. Ceramics. Binders.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31578

0,088 mm) 70. The paste is moistened with sulfite-alcohol vinasse, specific gravity 1.19-1.22. Articles with holes for pins are tamped in 100- and 160-ton frictional presses at moisture content of 3-3.5%, by 12-22 impacts, and are dried to a moisture content of less than 0.5%. Characteristics of the articles: volumetric weight over 3.0 g/cm<sup>3</sup>, compression 450-600 kg/cm<sup>2</sup>, temperature of deformation under load of 2 kg/cm<sup>2</sup>: beginning 1390-1410°, 40% compression 1560-1570°, number of thermal changes (with water) 7-9.

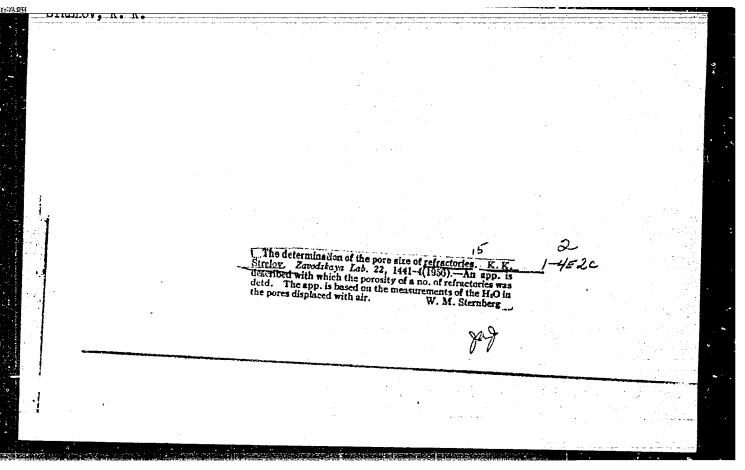
Card 2/2

THE RESIDENCE OF THE PROPERTY OF THE PROPERTY

STRELOV, K.K.

Nomegram for computing the amount of sulfite liquor additive. Ognoupery 21 no.2:86 156. (MIRA 9:7)

1. Sverdlevskeye etdeleniye Leningradskege instituta egneuperov. (Refractory materials) (Sulfite liquor)



AUTHOR. Strelov, K.K. (Cand. Tech.Sc.)

68-5-5/14

TITLE. Expansion of coke oven Dinas refractory bricks manufactared in the Pervoural'sk Works. (Rasshireniye koksovogo Dinasa Pervoural'skogo Zavoda).

(Coke and Chemistry), 1957, No.5,

ABSTRACT. Results of tests of silica bricks for coke ovens produced in the above works during 1946-1955 are summarised. Specific gravity was determined on 26C specimens, mean yearly values (Table 1) and frequency distribution (Fig.1, Table 2) are given. Mean mineralogical composition %: tridymite 52.5-78.4; quartz 2.6 - 10.0; glass and silicate 14.7 - 27.9. The relationship between mineralogical composition and specific gravity is shown in Fig.2. No relationship between the expansion of the refractory and its mideralogical composition and specific gravity was found (Figs. 3-6). Statistical characteristic of the expansion of the refractory in various temperature regions is given in Table 3. Maximum values for expansion of various consignments of the refractory based on laboratory data and actual expansion of some coke oven batteries measured during their heating are given in Figs. 7-10. Frequency dis-

Expansion of coke oven Dinas refractory bricks mamifactured in the Pervoural'sk Works. (Cont.) 68-5-5/14

tribution of maximum expansion values in the temperature region 100-180 C for various consignments is given in Fig.11. The total expansion of the Dinas refractories on heating up to 1450 C correlates well with their specific gravity (Fig.12), correlation equation is given. It is concluded that in view of the stability of properties of the Dinas refractory bricks manufactured on the Pervoural'sk works there is no need for a detailed examination of each lot produced except for the standard tests. Expansion up to 700 C should be tested in the works on 10-15 specimens from a given lot and the results obtained included in the certificate accompanying a given lot of coke oven refract-ory bricks. There are 3 tables and 12 figures.

ASSOCIATION: Urals Branch of the Institute of Refractories. (Ural'skoye Otdeleniye Instituta Ogneuporov).

AVAILABLE:

Card 2/2

Pressing refractory products. Ogneupory 22 no.1:38-42 '57.

(MIRA 10:3)

1. Ural'skoye otdeleniye Leningradskogo instituta ogneuporov.

(Pressed brick) (Refractory materials)

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653520007-2"